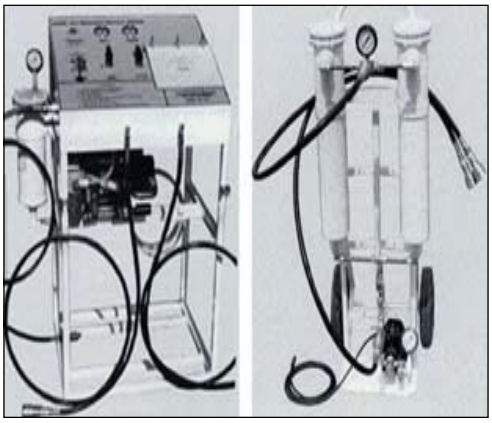
Navy Environmental Quality Fact Sheet

Do you use Halon 1301 in mission-critical applications?

Would you like to improve this process in the following areas?

- ***Meeting environmental compliance regulations*** -- Eliminate venting of Halon 1301, a Class I Ozone Depleting Substances, to the atmosphere.
- ***Improving workers' safety and health*** -- No change to current operations.
- ***Increasing productivity*** -- Reduce activity down time associated with Halon 1301 procurement process.



Halon 1301 recycling equipment

Halon 1301, an extremely effective fire suppression and explosion protection agent, has been identified as a Class I ozone depleting substance (ODS). Halon 1301 is currently approved for use only in mission-critical applications and conservation is essential to preserve existing supplies until replacement products and systems can be implemented. Halon 1301 recycling units use an air-powered pump and independent filtration system to efficiently transfer halon from aircraft fire bottles to storage vessels and prevent venting to the atmosphere. These units remove contaminants by filtration and condensation and permit halon reclamation and reuse. Halon 1301 recycling units are being used successfully at the NADEP, NAS North Island. ***This equipment is available through the Navy Pollution Prevention Equipment Program.***

How can you achieve these improvements?

Implement Halon 1301 Recycling Equipment.

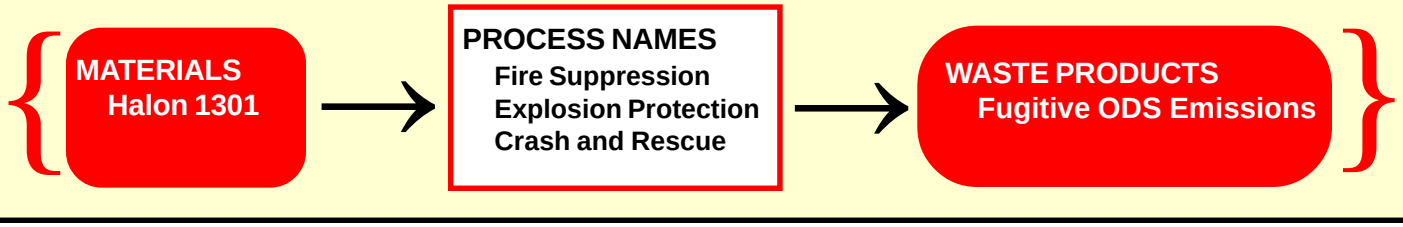
How does this equipment work?

This equipment permits transfer of halons to storage vessels for treatment and ultimate reuse.

How will this equipment save you money?

Operational costs will be reduced due to the reduction in halon management requirements, and reduction in halon procurement efforts. The cost to implement varies from $8,000 to $40,000.

Typical Process Flow Diagram



How can this technology eliminate or reduce pollution?

When implemented, this technology can conserve and preserve the amount of Halon 1301 required for fire suppression operations. Implementation will result in the following pollution reductions:

- Eliminate venting of Halon 1301 to the atmosphere
- Transfer Halon 1301 more efficiently and effectively.

Which shops can benefit most from this technology?

This technology can be used in processes that involve the use of Halon 1301 for fire suppression or explosion protection. Typical processes include:

- Flight-line Fire Fighting Operations
- Aircraft and Shipboard Fire Suppression
- Crash and Rescue Operations
- Facilities Fire Suppression

Take action: How can you implement this technology?

- **Activity Shop & Work Center Personnel**. If you work at an activity, contact your Pollution Prevention Program Manager. The P2 Program Manager can provide more information and conduct a more detailed analysis, and may be able to provide this equipment at no cost to a Shop or Work Center.
- **Activity Pollution Prevention Manager**. Request funding and installation assistance for this technology through the Navy P2 Equipment Program. Depending on the application, the Environmental Requirements Cookbook may contain project submission information for annual budget submissions to your major claimant.
- **For Additional Technical Information**. More information about this technology can be found on Joint Service P2 Opportunity Handbook Datasheet Number 3-III-16 (Web: http://www.nfesc.navy.mil/).

Achieving Environmental Compliance Through Pollution Prevention

Everyday the Navy faces the challenge of operating and maintaining the fleet while complying with environmental regulations. This burden can be reduced by implementing pollution prevention technologies and methods to reduce compliance requirements. This Fact Sheet is one in a series designed to encourage activities to implement pollution prevention technologies and methods. The overall goal of this series is to promote sustained environmental compliance at the lowest life-cycle cost.

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